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$$\gamma_{LV} \cdot \cos \theta = \gamma_{SV} - \gamma_{SL}$$

γ : FREE ENERGY PER UNIT AREA
OR SURFACE TENSION

L: LIQUID
S: SOLID
V: VAPOR
SL: SOLID/LIQUID INTERFACE
 θ : CONTACT ANGLE

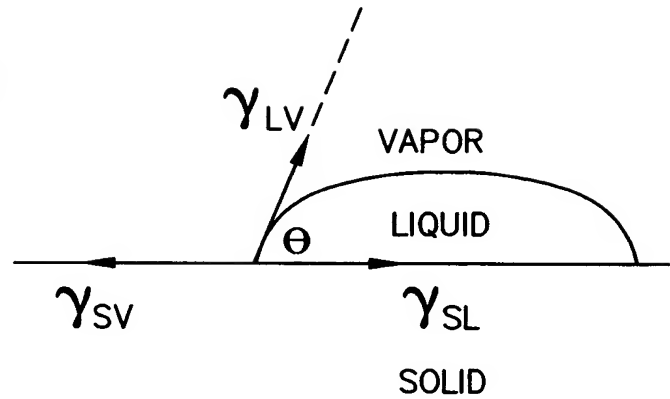
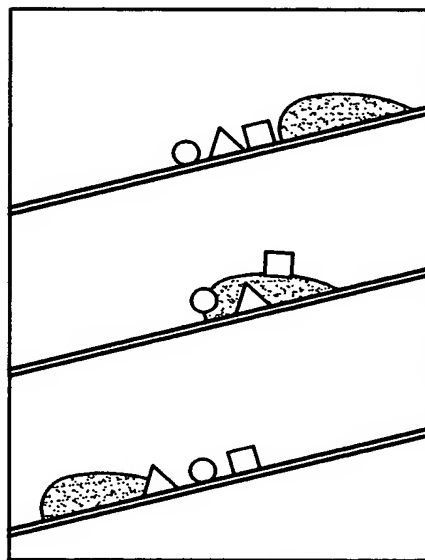
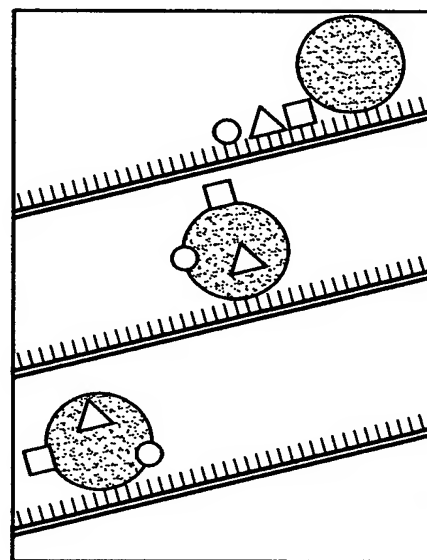


Figure -1-

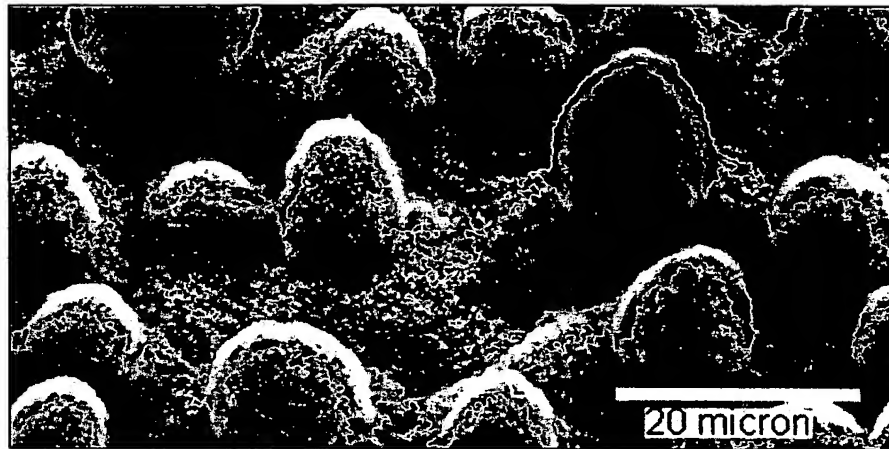


SMOOTH SURFACE



ROUGH SURFACE

Figure -2-



LOTUS LEAF STRUCTURE

Figure -3-



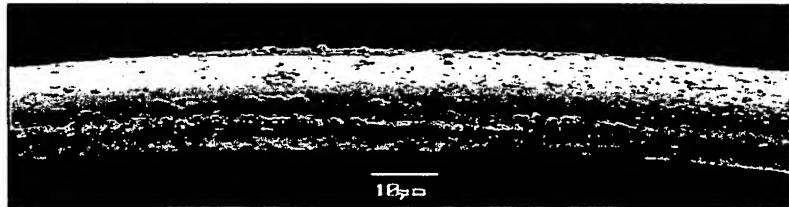
LOTUS STRUCTURE

Figure -3A-



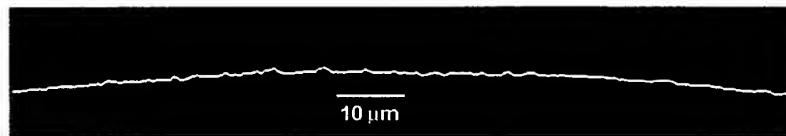
LOTUS PROFILE

Figure -3B-



PRIOR ART

Figure -4-



PRIOR ART PROFILE

Figure -4A-

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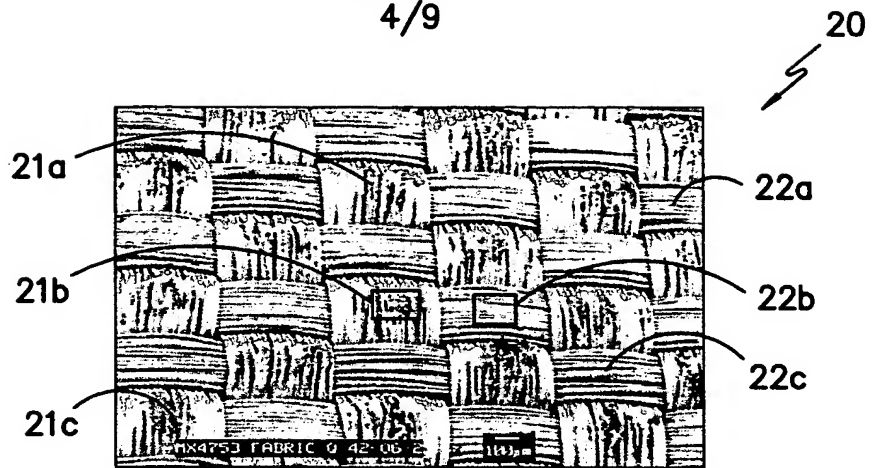


Figure -5-

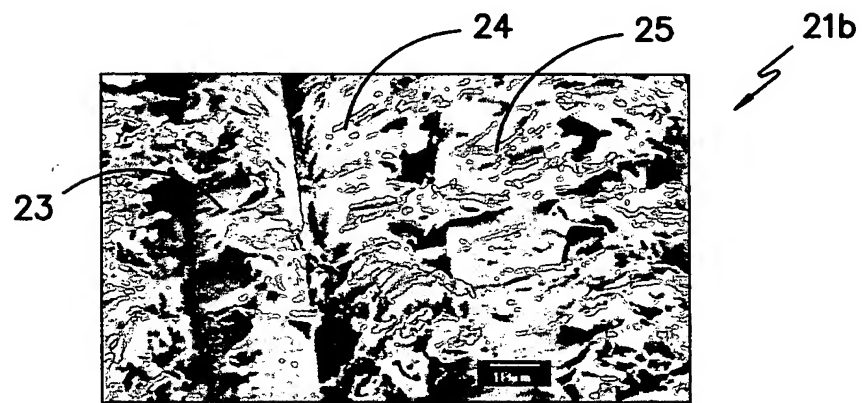


Figure -5A-

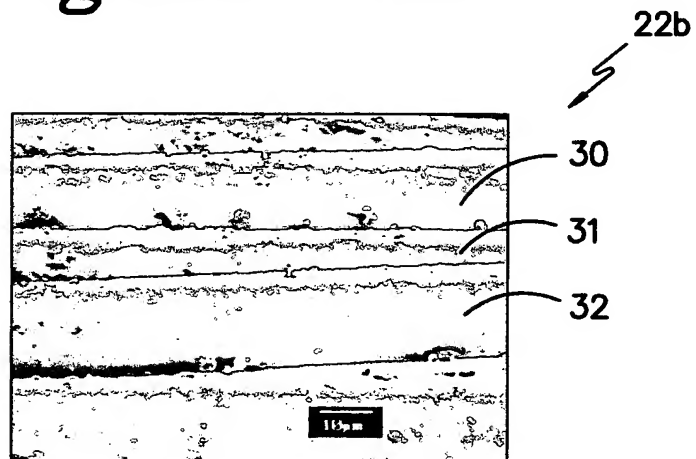


Figure -5B-

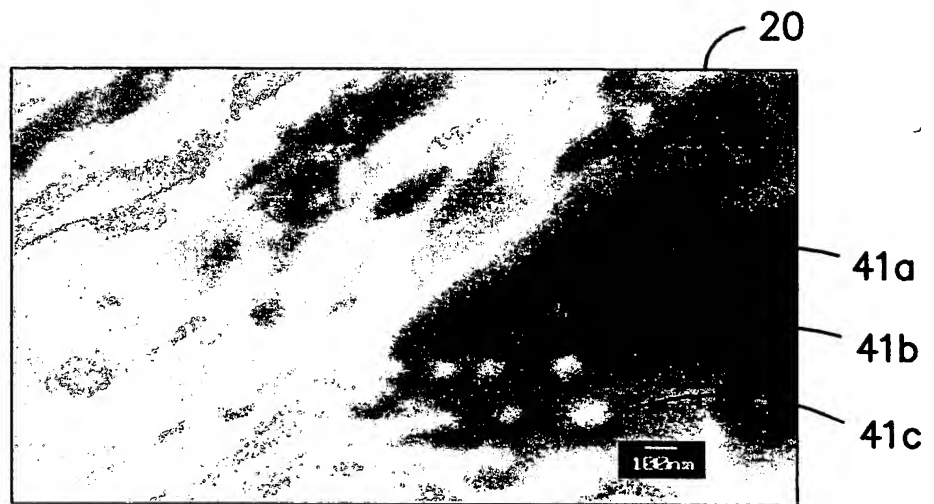


Figure -5C-

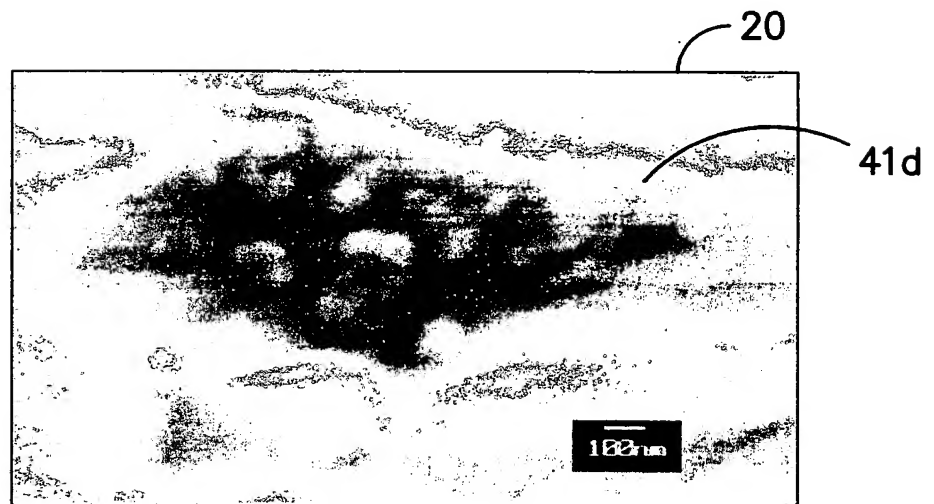


Figure -5D-

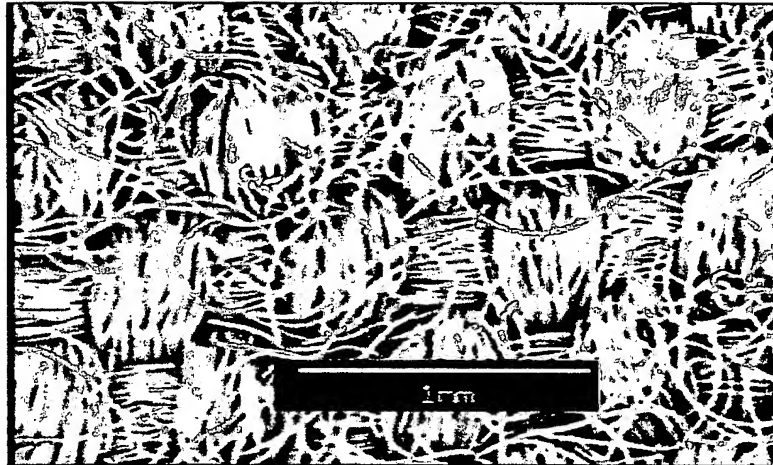


Figure -6-

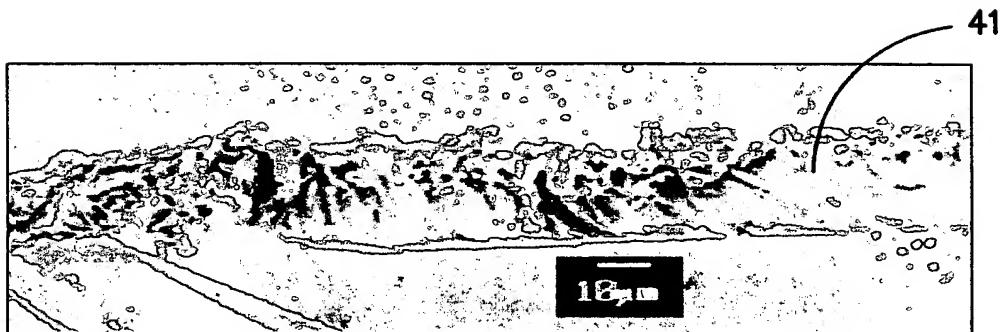


Figure -7A-



Figure -7B-



Figure -7C-



Figure -7D-



Figure -7E-

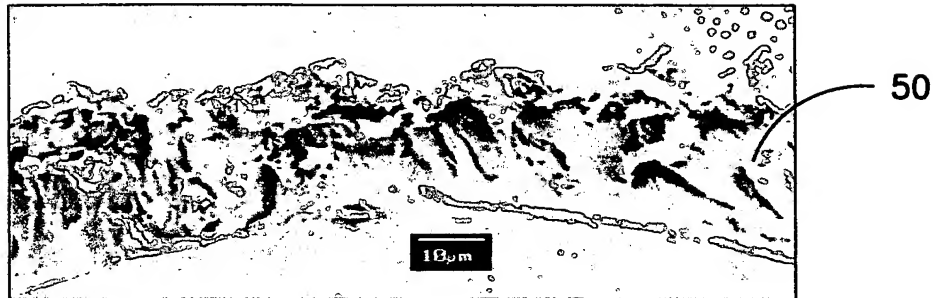


Figure -8A-



Figure -8B-

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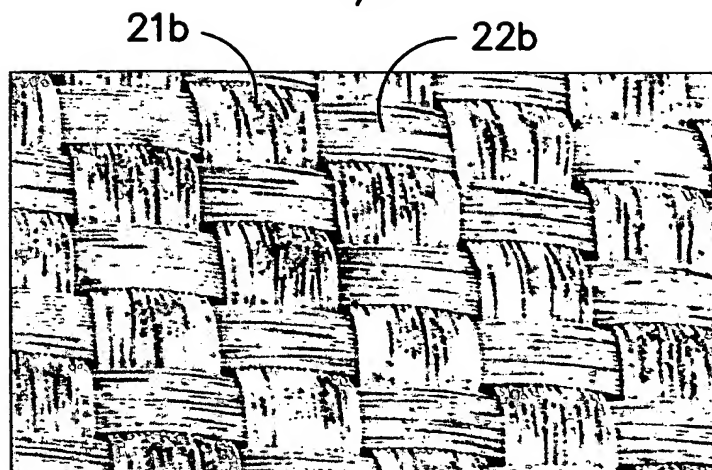


FIG. -9A-

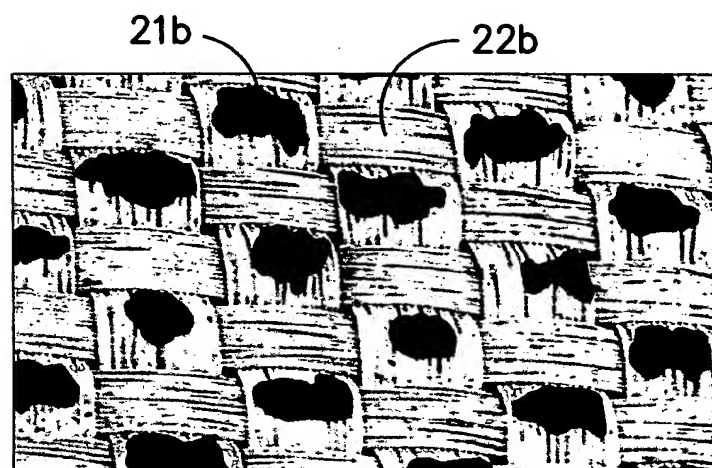


FIG. -9B-

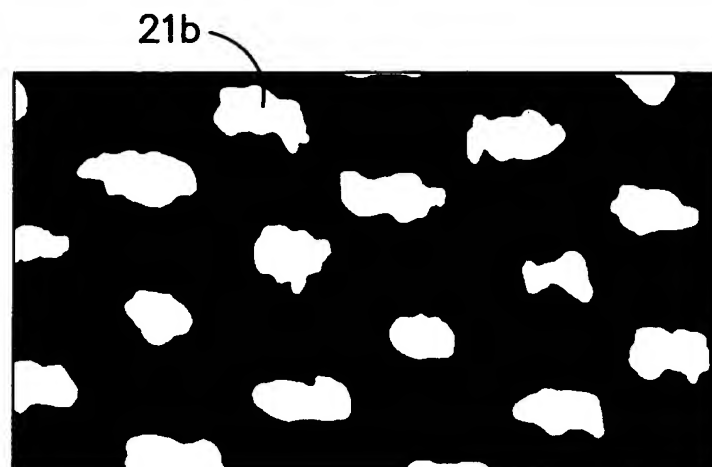


FIG. -9C-